

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P843141

Luminaire Tested: **24CZ2-55HE-SQR-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-SQR-UNV-B50  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

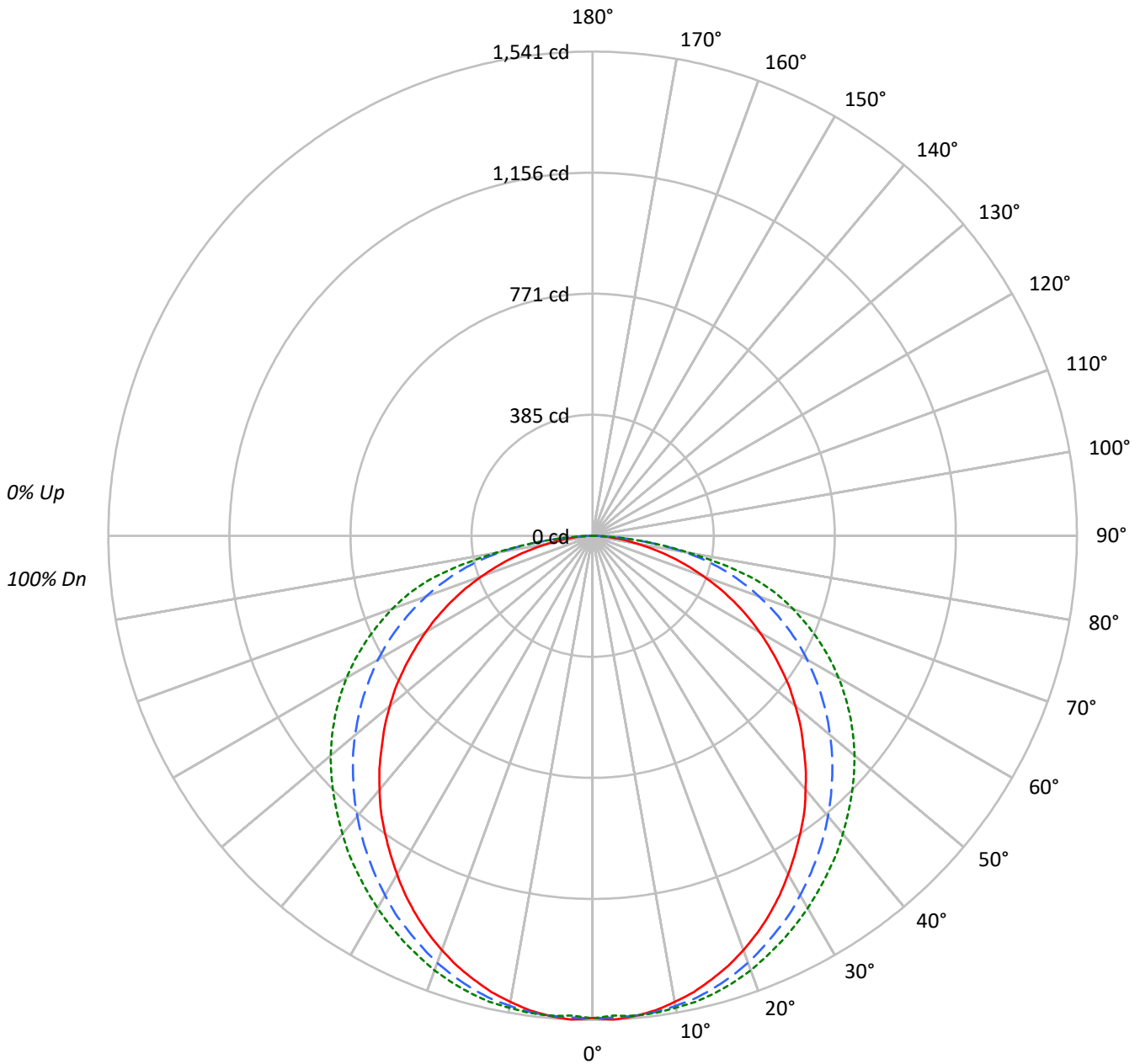
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4802.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

TEST NUMBER: P843141  
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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2166	2166	2166
5°	2175	2172	2172
10°	2159	2177	2186
15°	2136	2178	2201
20°	2108	2172	2210
25°	2072	2161	2218
30°	2028	2153	2230
35°	1986	2147	2251
40°	1943	2147	2282
45°	1893	2152	2326
50°	1849	2166	2389
55°	1795	2189	2462
60°	1732	2224	2551
65°	1657	2266	2659
70°	1538	2323	2794
75°	1392	2404	2923
80°	1173	2410	2512
85°	897	1822	1822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.7	3.0
10°-20°	419.2	8.7
20°-30°	636.7	13.3
30°-40°	774.5	16.1
40°-50°	824.6	17.2
50°-60°	785.4	16.4
60°-70°	656.8	13.7
70°-80°	437.9	9.1
80°-90°	121.1	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1201.7	25.0
0°-40°	1976.2	41.2
0°-60°	3586.2	74.7
0°-90°	4802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4802.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1535	1525	1533	1533	1533	146
15°	1462	1465	1491	1502	1506	412
25°	1330	1348	1388	1411	1424	613
35°	1153	1186	1246	1288	1306	721
45°	948	999	1078	1139	1166	733
55°	730	793	890	967	1000	652
65°	496	569	679	763	796	490
75°	255	336	441	515	536	270
85°	55	103	112	111	112	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1534.9	1534.9	1534.9	1534.9	1534.9
2.5°	1541.3	1530.1	1534.9	1534.9	1528.7
5°	1534.9	1525.4	1533.4	1533.4	1533.4
7.5°	1523.9	1515.9	1528.7	1531.8	1531.8
10°	1506.4	1503.3	1519.2	1523.9	1525.4
12.5°	1487.5	1485.8	1508.1	1514.3	1519.2
15°	1461.9	1465.2	1490.6	1501.7	1506.4
17.5°	1435.1	1441.3	1470.0	1485.8	1490.6
20°	1403.4	1412.9	1446.3	1461.9	1471.6
22.5°	1368.6	1382.8	1417.6	1436.6	1447.7
25°	1330.4	1347.7	1387.5	1411.2	1424.0
27.5°	1289.2	1311.5	1357.4	1384.2	1397.0
30°	1244.7	1270.1	1321.0	1352.7	1368.6
32.5°	1198.8	1228.8	1284.5	1319.3	1338.3
35°	1152.8	1186.2	1246.4	1287.6	1306.5
37.5°	1106.8	1140.0	1206.8	1251.1	1275.0
40°	1054.5	1094.1	1165.6	1214.6	1238.5
42.5°	1003.8	1046.5	1122.7	1176.5	1202.1
45°	948.2	999.1	1078.2	1138.6	1165.6
47.5°	897.5	948.2	1033.9	1097.4	1127.5
50°	842.0	895.8	986.3	1056.1	1087.9
52.5°	788.0	843.7	938.7	1013.3	1045.0
55°	729.5	792.8	889.6	967.3	1000.5
57.5°	670.8	739.0	838.7	919.7	953.1
60°	613.7	683.4	788.0	869.0	903.9
62.5°	556.6	626.3	735.7	818.1	851.5
65°	496.2	569.2	678.6	762.7	796.1
67.5°	436.1	512.1	621.5	705.6	737.3
70°	372.6	453.6	563.0	645.4	677.2
72.5°	314.1	394.8	502.6	583.6	613.7
75°	255.3	336.1	440.8	515.4	536.0
77.5°	198.2	279.0	372.6	421.8	426.6
80°	144.3	220.5	296.5	310.8	309.1
82.5°	96.7	164.9	204.6	206.1	210.8
85°	55.4	103.0	112.5	111.1	112.5
87.5°	22.3	36.5	31.7	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)